

# MEDACTA SHOULDER SYSTEM

COMPLETE, CONVERTIBLE, INNOVATIVE



## Specification Guide

Joint

Spine

Sports Med



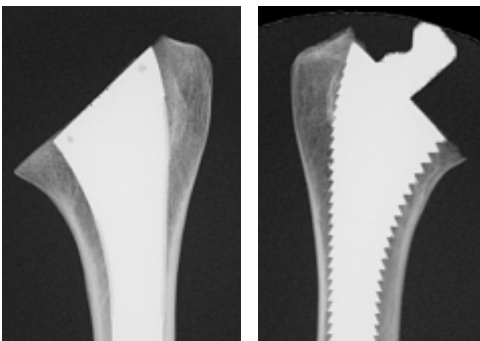
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## 1. HUMERAL DIAPHRYSIS



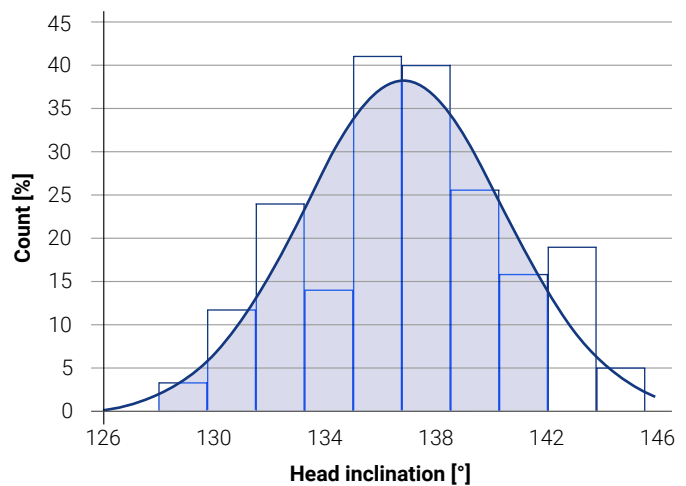
- Product Size Range: 11 sizes, 1 mm increments from 6mm to 16mm
- Material: Ti6Al7Nb - ISO 5832-11 (ASTM1295)
- Fixation: Press fit (Mectagrip 300µm ± 75µm with HA 80µm ± 20µm), option to cement distally
- Shape: Self orienting, self centering shape optimized via extensive 3D (>100 reconstructed humeri) and cadaver analysis (10 specimens) to provide primary stability



Geometry of the proximal humerus and implications for prosthetic design

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## 1.1 HUMERAL DIAPHYSIS STANDARD

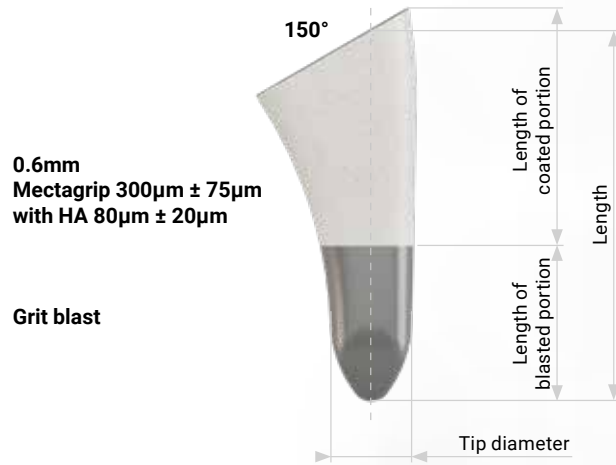


### DIMENSIONS

Size	Tip diameter (mm)	Length* (mm)	Length of coated portion* (mm)	Length of blasted portion* (mm)	Reference Number
6	6.5	87	42.2	44.8	04.01.0001
7	7.5	88.9	43	45.9	04.01.0002
8	8.6	90.7	43.8	46.9	04.01.0003
9	9.6	92.5	44.7	47.9	04.01.0004
10	10.6	94.4	45.5	48.9	04.01.0005
11	11.6	96.2	46.3	49.9	04.01.0006
12	12.6	98.1	47.2	50.9	04.01.0007
13	13.6	99.9	48	52	04.01.0008
14	14.6	101.8	48.8	53	04.01.0009
15	15.6	103.6	49.7	54	04.01.0010
16	16.6	105.5	50.5	55	04.01.0011

\* The indicated lengths are defined along the stem axis.

1.2 HUMERAL DIAPHYSIS SHORT



DIMENSIONS

Size	Tip diameter (mm)	Length* (mm)	Length of coated portion* (mm)	Length of blasted portion* (mm)	Reference Number
6	7.8	54.1	32.4	21.8	04.01.0179
7	8.9	55.4	32.9	22.4	04.01.0180
8	9.9	56.6	33.5	23.1	04.01.0181
9	10.9	57.9	34.1	23.8	04.01.0182
10	12	59.1	34.6	24.5	04.01.0183
11	13	60.3	35.2	25.2	04.01.0184
12	14	61.6	35.7	25.9	04.01.0185
13	15.1	62.8	36.3	26.5	04.01.0186
14	16.1	64.1	36.8	27.2	04.01.0187
15	17.1	65.3	37.4	27.9	04.01.0188
16	18.2	66.5	38	28.6	04.01.0189

\* The indicated lengths are defined along the stem axis.

## 2. HUMERAL ANATOMIC METAPHYSIS



- Neck Angle Options: 128°, 135° & 142°
- Material: Ti6Al7Nb - ISO 5832-11 (ASTM1295)
- Fixation: Press fit (Mectagrip 300µm ± 75µm with HA 80µm ± 20µm)
- Stem Assembly: Cylindrical driven fit and securing screw
- Suture Sleeves: Ø2.5mm



### 128° METAPHYSIS FAMILY

Size	Length Added* (mm)	Reference Number
6	17.8	04.01.0034
7	17.9	04.01.0035
8	18.1	04.01.0036
9	18.2	04.01.0037
10	18.3	04.01.0038
11	18.5	04.01.0039
12	18.6	04.01.0040
13	18.8	04.01.0041
14	18.9	04.01.0042
15	19.1	04.01.0043
16	19.2	04.01.0044

### 135° METAPHYSIS FAMILY

Size	Length Added* (mm)	Reference Number
6	12.7	04.01.0045
7	12.7	04.01.0046
8	12.7	04.01.0047
9	12.7	04.01.0048
10	12.7	04.01.0049
11	12.7	04.01.0050
12	12.7	04.01.0051
13	12.7	04.01.0052
14	12.7	04.01.0053
15	12.7	04.01.0054
16	12.7	04.01.0055

### 142° METAPHYSIS FAMILY

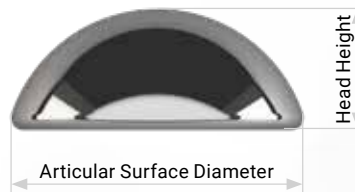
Size	Length Added* (mm)	Reference Number
6	12.7	04.01.0056
7	12.8	04.01.0057
8	13.0	04.01.0058
9	13.1	04.01.0059
10	13.2	04.01.0060
11	13.3	04.01.0061
12	13.4	04.01.0062
13	13.6	04.01.0063
14	13.7	04.01.0064
15	13.8	04.01.0065
16	13.9	04.01.0066

\* The indicated lengths are defined along the stem axis.

**3. HUMERAL ANATOMIC HEAD AND DOUBLE ECCENTER**



- Humeral Head and Double Eccenter combine for an adjustable offset (0÷5mm)
- Material: CoCrMo - ISO 5832-12 (ASTM F1537)
- Fixation: Morse Taper engagement with Double eccenter
- Fixation: Double Eccenter engages with stem via cylindrical driven fit and securing screw



**HUMERAL HEAD FAMILY**

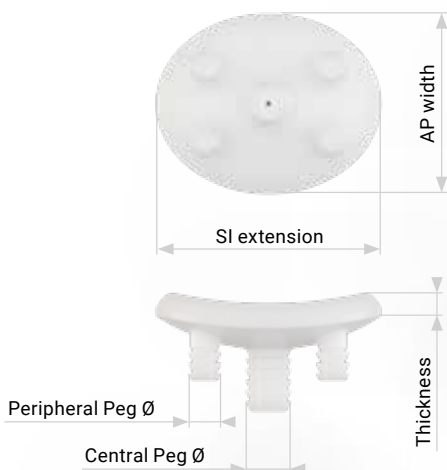
Reference Number	Description	Head Height (mm)	Articular Surface Diameter
04.01.0090	Metal humeral head Ø40	15.5	40
04.01.0091	Metal humeral head Ø42	16.3	42
04.01.0092	Metal humeral head Ø44	17.1	44
04.01.0093	Metal humeral head Ø46	17.9	46
04.01.0094	Metal humeral head Ø48	18.7	48
04.01.0095	Metal humeral head Ø50	19.5	50
04.01.0096	Metal humeral head Ø52	20.3	52
04.01.0097	Metal humeral head Ø54	21.1	54
04.01.0098	Metal humeral head Ø56	21.9	56
04.01.0099	Metal humeral head Ø58	22.7	58
04.01.0089	Double Eccenter	N/A	N/A



## 4. ANATOMIC CEMENTED GLENOID



- Material: Highly cross-linked polyethylene
- Cemented Fixation ONLY
- Barbed central post and peripheral pegs to provide immediate stability
- 10 sizes divided in 2 pegs configurations (4 pegs for the smallest sizes, 5 for the largest ones)
- Beveled geometry to guarantee a wide ROM (→90° of gleno-humeral abduction)
- Diametrical mismatch between the humeral head and the glenoid described in the table below:



		Cemented glenoid										
Size												
	A.D.	40	42	44	46	48	50	52	54	56	58	
Humeral head	40	40	6	8	10							
	42	42	4	6	8	10						
	44	44	2	4	6	8	10					
	46	46		2	4	6	8	10				
	48	48			2	4	6	8	10			
	50	50				2	4	6	8	10		
	52	52					2	4	6	8	10	
	54	54						2	4	6	8	10
	56	56							2	4	6	8
	58	58								2	4	6

A.D. = Articular Diameter

### DIMENSIONS

Reference Number	Description	Peripheral Peg Ø (mm)	Central Peg Ø (mm)	Articular surface Ø (mm)	SI extension (mm)	AP width (mm)	# of Pegs	Thickness (mm)	Backsurface curvature (mm)
04.01.0128	HC pegged glenoid Ø40	5.1	7.1	46	30	24	4	5	33
04.01.0129	HC pegged glenoid Ø42	5.1	7.1	48	31	24.8	4	5	33
04.01.0130	HC pegged glenoid Ø44	5.1	7.1	50	32	25.6	4	5	33
04.01.0131	HC pegged glenoid Ø46	5.1	7.1	52	33	26.4	4	5	33
04.01.0132	HC pegged glenoid Ø48	5.1	7.1	54	34	27.2	5	5	33
04.01.0133	HC pegged glenoid Ø50	5.1	7.1	56	35	28	5	5	33
04.01.0134	HC pegged glenoid Ø52	5.1	7.1	58	36	28.8	5	5	33
04.01.0135	HC pegged glenoid Ø54	5.1	7.1	60	37	29.6	5	5	33
04.01.0136	HC pegged glenoid Ø56	5.1	7.1	62	38	30.4	5	5	33
04.01.0137	HC pegged glenoid Ø58	5.1	7.1	64	39	31.2	5	5	33

**5. REVERSE METAPHYSIS**



- Material: Ti6Al4V - ISO 5832-3 (ASTM F136)
- Cylindrical driven fit and securing screw to stem
- Inlay design with HA
- Suture Sleeves: Ø2mm
- Std & +9mm
- +20° & -20° trays on demand for revision from anatomic to reverse when stem is well fixed



**DIMENSIONS**

Reference Number	Description	Diameter (mm)	Height (mm)
04.01.0110	Humeral reverse metaphysis +0mm/0°	37.5	13
04.01.0111	Humeral reverse metaphysis +9mm/0°	37.5	22
04.01.0112*	Humeral reverse metaphysis +0mm/+20°L	37.5	16.2
04.01.0113*	Humeral reverse metaphysis +9mm/+20°L	37.5	25.2
04.01.0114*	Humeral reverse metaphysis +0mm/+20°R	37.5	16.2
04.01.0115*	Humeral reverse metaphysis +9mm/+20°R	37.5	25.2

\* On demand

## 6. REVERSE LINER



- Material: Highly cross-linked polyethylene
- Engagement Mechanism - A retaining lip provides secure coupling with the Reverse metaphysis
- Jump height: 20% of glenosphere diameter
- Std, +3 and +6 iteration, up to 15mm with metaphysis
- 145° and 155° neck angle options with each poly



### DIMENSIONS

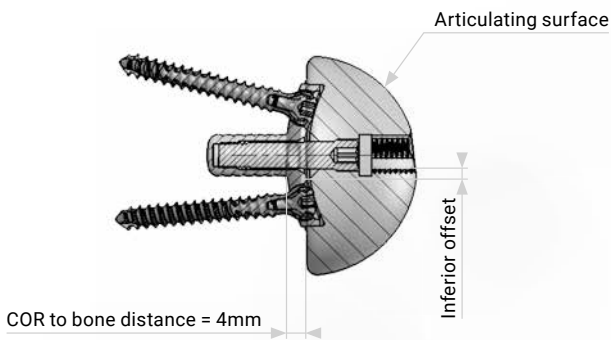
Reference Number	Description	Height (mm)
04.01.0116*	Humeral reverse HCPE liner Ø32/+0mm	18.5
04.01.0117*	Humeral reverse HCPE liner Ø32/+3mm	21.5
04.01.0118*	Humeral reverse HCPE liner Ø32/+6mm	24.5
04.01.0119	Humeral reverse HCPE liner Ø36/+0mm	18.4
04.01.0120	Humeral reverse HCPE liner Ø36/+3mm	21.4
04.01.0121	Humeral reverse HCPE liner Ø36/+6mm	24.4
04.01.0122	Humeral reverse HCPE liner Ø39/+0mm	19.1
04.01.0123	Humeral reverse HCPE liner Ø39/+3mm	22.1
04.01.0124	Humeral reverse HCPE liner Ø39/+6mm	25.1
04.01.0125	Humeral reverse HCPE liner Ø42/+0mm	20.8
04.01.0126	Humeral reverse HCPE liner Ø42/+3mm	23.8
04.01.0127	Humeral reverse HCPE liner Ø42/+6mm	26.8

\* On demand

## 7. REVERSE GLENOSPHERE



- 2mm inferior offset fixed through the sizes
- Material: CoCrMo - ISO 5832-12 (ASTM F1537)
- Fixation: Morse Taper engagement with securing screw
- 4 Sizes - Ø32mm, Ø36mm, Ø39mm, Ø42mm
- Lateralized COR 4mm from bone interface



	Ø 32	Ø 36	Ø 39	Ø 42
Baseplate Ø 22				
Baseplate Ø 24.5				
Baseplate Ø 27				

### DIMENSIONS

Reference Number	Description	Lateralization (mm)	Inferior offset (mm)	Head Height (mm)	Articular Surface Diameter (mm)	Diameter of Curvature
04.01.0167*	Glenosphere 32xØ22	+4	2	16	31.8	32
04.01.0168*	Glenosphere 36xØ22	+4	2	18	35.8	36
04.01.0178*	Glenosphere 32xØ24.5	+4	2	16	31.8	32
04.01.0169	Glenosphere 36xØ24.5	+4	2	18	35.8	36
04.01.0170	Glenosphere 39xØ24.5	+4	2	19.5	38.8	39
04.01.0171	Glenosphere 42xØ24.5	+4	2	21	41.8	42
04.01.0172	Glenosphere 36xØ27	+4	2	18	35.8	36
04.01.0173	Glenosphere 39xØ27	+4	2	19.5	38.8	39
04.01.0174	Glenosphere 42xØ27	+4	2	21	41.8	42

\* On demand

## 8. GLENOID BASEPLATES



- Threaded post Ø10.4mm
- Material: Ti6Al4V - ISO 5832-3 (ASTM F136) + Type II anodization with 300µm Mectagrip
- Ø24.5mm & Ø27mm options
- Ø24.5 @ 25mm and 30mm length
- Ø27mm @ 30mm & 35mm length
- Core is Ø7.4mm

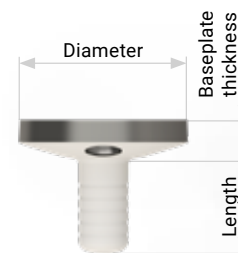


### THREADED BASEPLATE

Reference Number	Diameter (mm)	Length (mm)	Backsurface curvature (mm)	Baseplate thickness (mm)
04.01.0190	24.5	25	33	6.1
04.01.0191	24.5	30	33	6.1
04.01.0192	27	30	33	6.6
04.01.0193	27	35	33	6.6



- Standard post Ø8mm
- Material: Ti6Al4V - ISO 5832-3 (ASTM F136) with HA (Grit blasted front surface)
- 22mm & 24.5mm 2 screws; 27mm 4 screws
- Lengths @ 15mm, 25mm and 35mm
- Drill bit is Ø7.7mm



### PEGGED BASEPLATE

Reference Number	Diameter (mm)	Length (mm)	Backsurface curvature (mm)	Baseplate thickness (mm)
04.01.0148*	22	15	33	5.6
04.01.0149*	22	25	33	5.6
04.01.0150*	22	35	33	5.6
04.01.0151	24.5	15	33	6.1
04.01.0152	24.5	25	33	6.1
04.01.0153	24.5	35	33	6.1
04.01.0154	27	15	33	6.6
04.01.0155	27	25	33	6.6
04.01.0156	27	35	33	6.6

\* On demand

## 9. GLENOID POLYAXIAL LOCKING SCREWS



- Ø4.5 Polyaxial screw (Outer Ø)
- Screw provides compression and locks to baseplate construct
- 14mm to 50mm lengths in 4mm increments
- ±15° of angulation
- Material:
  - Outer screw: Ti6Al4V - ISO 5832-3 (ASTM F136) + Type II anodization
  - Inner screw: CoCrMo - ISO 5832-12 (ASTM F1537)
- Screw Core @ Ø3.0mm



### DIMENSIONS

Reference Number	Description	Length (mm)
04.01.0157	Glenoid polyaxial locking screw	14
04.01.0158	Glenoid polyaxial locking screw	18
04.01.0159	Glenoid polyaxial locking screw	22
04.01.0160	Glenoid polyaxial locking screw	26
04.01.0161	Glenoid polyaxial locking screw	30
04.01.0162	Glenoid polyaxial locking screw	34
04.01.0163	Glenoid polyaxial locking screw	38
04.01.0164	Glenoid polyaxial locking screw	42
04.01.0165	Glenoid polyaxial locking screw	46
04.01.0166	Glenoid polyaxial locking screw	50

## 10. GLENOID POLYAXIAL NON-LOCKING SCREWS



- Ø4.5 Polyaxial screw
- Screw provides compression to baseplate construct
- 14mm to 50mm lengths in 4mm increments
- ±15° of angulation
- Material: Ti6Al4V - ISO 5832-3 (ASTM F136) + Type II anodization



### DIMENSIONS

Reference Number	Description	Length (mm)
04.01.0194	Glenoid polyaxial non-locking screw	14
04.01.0195	Glenoid polyaxial non-locking screw	18
04.01.0196	Glenoid polyaxial non-locking screw	22
04.01.0197	Glenoid polyaxial non-locking screw	26
04.01.0198	Glenoid polyaxial non-locking screw	30
04.01.0199	Glenoid polyaxial non-locking screw	34
04.01.0200	Glenoid polyaxial non-locking screw	38
04.01.0201	Glenoid polyaxial non-locking screw	42
04.01.0203	Glenoid polyaxial non-locking screw	46
04.01.0204	Glenoid polyaxial non-locking screw	50



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**REDEFINING BETTER  
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MEDACTA SHOULDER SYSTEM  
Specification Guide

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